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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/643,771	08/19/2003	James R. Kvitrud	58449US002	4116
7590 02/11/2009 Eloise J Maki Esq. 3M Innovative Properties Company Office of Intellectual Property Counsel P O Box 33427 St Paul, MN 55133-3427			EXAMINER	
			SINGH, SUNIL K	
			ART UNIT	PAPER NUMBER
			3732	
			MAIL DATE	DELIVERY MODE
			02/11/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/643,771 KVITRUD ET AL. Office Action Summary Examiner Art Unit Sunil K. Sinah 3732 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 10 November 2008. 2a) ☐ This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-18 and 68-73 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-18 and 68-73 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)

Notice of Draftsperson's Patent Drawing Review (PTO-948)
 Information Disclosure Statement(s) (PTO/S5/08)

Paper No(s)/Mail Date 11/10/2008.

Paper No(s)/Mail Date.

6) Other:

Notice of Informal Patent Application

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 and 2 are rejected under 35 U.S.C. 102(b) as being anticipated by Kahn (3,949,476). Kahn discloses a dental crown form comprising a body defining an anatomically tooth-shaped volume, the body comprising a base and an incisal/occlusal region distal from the base, hardenable dental material capable of being used for forming dental crown located within the volume, and a handle attached to the body at a location removed from the base and closer to the incisal/occlusal region than the base (figure 1b).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be neadtived by the manner in which the invention was made. Application/Control Number: 10/643,771

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Claims 3-6, 9, 10, 13, 14, 17, and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kahn in view of Bergstrom et al. (6,283,755).

Kahn discloses a dental form that shows the limitations as described above; however, Kahn does not show the dental form having a hollow handle. Bergstrom et al. teach a dental form comprising a hollow tubular handle 5°, the hollow handle defines a handle volume 14 that is in fluid communication with the volume of the body through an opening in the body. It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the dental form of Kahn to have the handle of Bergstrom et al. for relieving hydrostatic pressure in view of Bergstrom et al. It would have been obvious matter of choice to one of ordinary skill in the art as to the handle having a scaled tip. The handle volume is more than 5% of the body volume.

Claims 7, 11, and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kahn in view of Bergstrom et al. and further in view of Willison et al. (2004/0005277).

The modified dental form of Kahn and Bergstrom et al. shows the limitations as described above; however, they do not show the dental form located within a hermetically sealed package. Willison et al. teach a dental form (device) placed in a hermetically sealed package [0155]. It would have been obvious to one having ordinary skill in the art at the time the invention was made to further modify the dental form to be packaged as in Willison et al. in order to contain and transport the device to the user in view of Willison et al.

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Claims 8, 12, 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kahn in view of Bergstrom et al. and further in view of Subelka et al. (6,696,507). The modified dental form of Kahn and Bergstrom et al. shows the limitations as described above; however, they do not show the dental form located within an actinic light barrier package. Subelka et al. teach dental material placed in an actinic light barrier package 10 (column 5 line 23). It would have been obvious to one having ordinary skill in the art at the time the invention was made to further modify the dental form to be packaged as in Subelka et al. in order to protect the contents from premature exposure to light in view of Subelka et al.

Claims 68-73 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kahn in view of Bergstrom et al. and further in view of Oxman et al. (6,187,836).

Kahn/Bergstrom discloses a dental form that shows the limitations as described above and hardenable dental material such as dipolymer and acrylic resin; however,

Kahn/Bergstrom does not explicitly show the hardenable dental material being photopolymerizable or chemically polymerizable. Oxman et al. teach hardenable dental material including initiators being photopolymerizable and/or chemically polymerizable. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have the hardenable material of Oxman et al. in order to control the time between hardening of the dental material in view of Oxman et al.

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Response to Arguments

Applicant's arguments with respect to claims 68-73 have been considered but are moot in view of the new ground(s) of rejection.

Applicant's arguments filed 11/10/2008 have been fully considered but they are not persuasive. Applicant argues Kahn does not disclose a hardenable dental material used for forming a crown. The examiner disagrees. It is the examiner's position that the hardenable dental material is capable of being used to form a dental crown. This position is further supported in Column 4 (claim 2) of Kahn's reference.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sunil K. Singh whose telephone number is (571) 272-3460. The examiner can normally be reached on Monday-Friday (Increased Flex Schedule).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cris L. Rodriguez can be reached on (571) 272-4964. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

02/06/2009

/Sunil K Singh/ Examiner, Art Unit 3732

/Ralph A. Lewis/ Primary Examiner, Art Unit 3732